

REMARKS

The Application has been carefully reviewed in light of the Office Action dated November 20, 2002 (Paper No. 8). Claims 1 to 22 are in the application, of which Claims 1, 7 and 14 are the independent claims. Claims 7 and 9 to 11 are being amended, and Claims 12 to 22 are being added. Reconsideration and further examination are respectfully requested.

By the Office Action, Claims 1 to 5 and 7 to 11 have been rejected under 35 U.S.C. § 103(a) over U.S. Patent 5,793,414 (Shaffer) and U.S. Patent 6,285,685 (Bum), and Claim 6 has been rejected under 35 U.S.C. § 103(a) over Shaffer, Bum and U.S. Patent 6,076,076 (Gottfreid). Reconsideration and withdrawal of these rejections are respectfully requested.

The present invention generally concerns printing from an internet based source onto a printer located at a user's home. More particularly and according to the present invention, a home printer is connected to a set top box which is in turn connected to a cable network, and the cable network accepts print jobs from the internet-based source and directs the print job to the home printer. A printer-independent print job is received from the internet-based source at the cable head end where it is rendered into a rasterized bit map image that is specific for the home printer, and the rasterized bit map image is transferred over the cable network to the set top box for printing on the home printer.

By virtue of this arrangement, a print job received from an internet-based source in a printer-independent format is both rendered into a rasterized bit map image for printing by the home printer and then transferred to the set top box via a cable head end so that the print job can be printed on the home printer.

Claims 1 to 6

Turning to the specific language of the claims, Claim 1 defines a method for providing for printout of an internet-based print job at a printer connected to a set top box, in which the set top box is connected to a cable head end via a digital cable network. A print job is received from an internet-based source at the cable head end, the print job being received in a printer-independent format, and including address information designating at least one home printer connected to a respective set top box. Based on the address information, a user directory is accessed so as to determine information identifying type and configuration of the printer. A logical software printer is created at the cable head end, and a print driver corresponding to the printer identifying information in the logical printer is executed, so as to render the printer-independent print job into a rasterized bit map image that is specific for the ultimate destination printer. The rasterized bit map image is transferred over the digital cable network to the set top box to which the destination printer is connected.

The applied art, namely Shaffer, Bum and Gottfried, is not seen to teach or to suggest transferring a rasterized bit map image rendered from a printer-independent print job received from an internet-based source.

Shaffer is seen to describe a system in which a television viewer uses the television connected to a set top box to request printing of an image on a printer, which is also connected to a set top box, over the cable network. See Figure 1 of Shaffer. In response to the television viewer's request, program control computer 16 retrieves the requested image and processes the image for the viewer's printer. See col. 3, lines 27 to 55.

It is conceded in the Office Action that Shaffer does not teach connectivity to the internet for supply of internet-based print data.

Bum is not seen to remedy the above-noted deficiencies of Shaffer. Bum is seen to describe a computer that accesses the internet backbone via a STB and a cable head end, such that the STB and CHE communicate using IP over an ATM network, and the cable head end forms an IP packet for transmission over the internet backbone. See Figure 1 and col. 4, lines 23 to 60.

Nothing in Shaffer or Bum, taken alone or in any permissible combination, is seen to teach or to suggest transferring a rasterized bit map image rendered from an printer-independent print job received from an internet-based source.

The remaining applied art, namely Gottfreid, has been reviewed and is also not seen to teach or to suggest transferring a rasterized bit map image rendered from an printer-independent print job received from an internet-based source.

Therefore, for at least the foregoing reasons, Claim 1 is believed to be in condition for allowance.

Claims 2 to 6 are each dependent from the independent claims discussed above and are therefore believed patentable for the same reasons. Because each dependent claim is also deemed to define an additional aspect of the invention, however, the individual consideration of each on its own merits is respectfully requested.

Claims 7 and 8

Claim 7 defines a method to print an internet-based print job received by a cable head end on a printer connected to a set top box that communicates with the cable head end over a high speed data communication network, the print job being received by the cable head end in a high level printer description language addressed to one or more such printers. A software driver is obtained for the printer at the cable head end, the software driver being obtained based on the address and corresponding to configuration and type of the addressed printer. A logical printer is created in the cable head end, the logical printer corresponding to the software driver. The logical printer is executed so as to rasterize the high level printer description language print job into a rasterized bit map image format, and the rasterized bit map image format is transmitted over the high speed data communication network to the set top box addressed in the print job.

Further, Applicants submit that Claim 7 is believed to be in condition for allowance for at least the same reasons.

As discussed above, neither Shaffer, Bum nor Gottfreid, taken alone or in any permissible combination, is seen to teach or to suggest transferring a rasterized bit map image rendered from an printer-independent print job received from an internet-based source.

Therefore, for at least the foregoing reasons, Claim 7 is believed to be in condition for allowance.

Claim 8 is dependent from the independent claims discussed above and are therefore believed patentable for the same reasons. Because each dependent claim is also

deemed to define an additional aspect of the invention, however, the individual consideration of each on its own merits is respectfully requested.

Claims 12 to 22:

New Claims 12 and 13 have, inter alia, the feature that the internet-based print job received by the cable head end is a push-print job that originates from an internet-based source. The applied art, when taken alone or in any permissible combination, is not seen to teach or to suggest the features of new Claims 12 and 13.

New Claims 14 to 22 include, inter alia, the steps of accessing a user directory to determine a printer driver corresponding to a printer and obtaining printer identification information by communicating with a set top box, and loading a print driver specified by either the accessing or obtaining steps for execution to render a printer-independent print job into a rasterized bit map image. The applied art is not seen to teach or to suggest the features of new Claims 14 to 22.

CONCLUSION

In view of the foregoing, the entire application is believed to be in condition for allowance, and such action is respectfully requested at the Examiner's earliest convenience.

Applicants' undersigned attorney may be reached in our Costa Mesa,

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Respectfully submitted,


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Office of Patent Legal Administration << Pre-OG Notices << << Amendments in a Revised Format Now Permitted

The United States Patent and Trademark Office (USPTO or Office) is permitting applicants to submit amendments in a revised format as set forth herein. The revised amendment format is essentially the same as the amendment format that the Office is considering adopting via a revision to 37 CFR 1.121 (Manner of Making Amendments). The revision to 37 CFR 1.121 (if adopted) will simplify amendment submission and improve file management. The Office plans to adopt such a revision to 37 CFR 1.121 by July of 2003, at which point compliance with revised 37 CFR 1.121 will be mandatory.

The revised amendment format is an expansion of the special amendment process instituted for a prototype Electronic File Wrapper program described in USPTO ANNOUNCES PROTOTYPE OF IMAGE PROCESSING, 1265 Off. Gaz. Pat. Office 87 (Dec. 17, 2002) ("Prototype Announcement"). The special amendment process (which was limited to claims) has proven overwhelmingly acceptable to applicants participating in the prototype and beneficial to examiners. The revised amendment format provides for amendments to be made to the specification and the drawings in addition to the claims.

Effective immediately, **all** applicants, including applicants participating in the prototype, may submit amendments using the revised amendment format set forth herein. Applicants may wish to submit all amendments in the revised amendment format because: (1) it will facilitate transition to a revised amendment format when it becomes mandatory, (2) inconsistent versions of claim amendments (clean and marked-up) will be avoided, and (3) time and resources will be saved.

WAIVER of 37 CFR 1.121

The provisions of 37 CFR 1.121(a), (b), (c) and (d) are waived for amendments to the **claims, specification, and drawings** in all applications in all Technology Centers where the amendments comply with the revised amendment format detailed below. Note: The revised amendment format (and the waiver) does **not** apply to 37 CFR 1.121(h) and (i) which indicate that amendments to reissue applications and reexamination proceedings are governed by 37 CFR 1.173 for reissue applications and 37 CFR 1.530 (d)-(k) for *ex parte* and *inter partes* reexaminations.

In addition, the WAIVER indicated in the above mentioned Prototype Announcement for the limited (claims only) amendment process of that prototype is also expressly continued and amendments in applications (other than reissue applications) in all Technology Centers that comply with the requirements in that announcement will be acceptable.

REVISED AMENDMENT FORMAT**I. Begin Sections on Separate Sheets:**

Each section of an amendment paper (e.g., Amendments to the Specification, Amendments to the Claims, Remarks) shall begin on a separate sheet to facilitate separate indexing and electronic scanning of the document.

For example, each of the following four sections of an amendment paper must start on a separate sheet:

- a.) Introductory Comments

- b.) Amendments to the Specification
- c.) Amendments to the Claims
- d.) Remarks

II. Submit Only One Version (with markings) of an Amended Part:

The requirement to provide two versions of a replacement paragraph, section, or claim (a clean version and a marked up version), as set forth in current 37 CFR 1.121, is waived where the format set forth below is followed.

III. Amendments to the Claims

A. A Complete Listing of Claims is Always Required:

If an amendment adds, changes or deletes any claim, a detailed listing of all claims that are, or were, in the application, irrespective of whether the claim(s) remains under examination in the application, must be presented, and the amendment to the claims is expressed in the listing. The listing shall be presented as follows:

1. Ascending Order and Status Identifier Required

The listing shall be provided in sequential ascending numerical order (beginning with claim 1). A status identifier shall be provided for every claim in a parenthetical expression following the claim number (e.g., "Claim 1. (original)"). A list of acceptable status identifiers is set forth in part B, below. The text of **all** claims under examination shall be submitted each time any claim is amended. Cancelled and withdrawn claims should be indicated by only the claim number and status. The text of cancelled or withdrawn claims should not be presented.

2. Markings in Currently Amended Claims Required

All claims *being currently amended* shall be submitted with markings to indicate the changes that have been made relative to the immediate prior version of the claims. The changes in any amended claim should be shown by strikethrough (for deleted matter) or underlining (for added matter). No separate "clean" version should be submitted for currently amended claims, as this requirement has been eliminated. **Markings should only be made in claims being currently amended in an amendment paper.**

3. Only Clean Text Required for Other Claims Under Examination.

The text of pending claims *not being currently amended* that are under examination shall be presented in a clean version in the listing. Any claim presented in clean version constitutes an assertion that it has not been changed relative to the immediate prior version.

4. Status to Effect Claim Cancellation or Addition.

A claim may be cancelled by merely indicating the status of the claim as cancelled. Any new claim added by amendment must be indicated by the appropriate status identifier and shall not be underlined. Thus, added new claims of status (new), (reinstated - formerly claim #_) and (re-presented - formerly dependent claim #_) must be presented in clean version. Additional claims may be subject to additional fees, as appropriate.

5. When Grouping of Claims is Permitted.

Consecutive cancelled or withdrawn claims may be aggregated into one line of the listing (e.g. Claims 1 - 5 (cancelled)).

6. Use "Currently Amended" Status Where Applicable.

If any "previously reinstated" or "previously re-presented" claim is being amended, the status shall be indicated as "currently amended" with markings as indicated in paragraph A2, above. Multiple status identifiers should not be used for any single claim.

B. Status Identifiers that May be Used:

In order to promote uniformity and consistency, only the following eleven (11) defined status identifiers should be used to indicate the status of the claims (in parentheses after the claim number):

- | | |
|--|---|
| 1. (Original): | Claim filed with the application following the specification (i.e., not added by preliminary amendment). |
| 2. (Currently amended): | Claim being amended in the current amendment paper. |
| 3. (Previously amended): | Claim not being currently amended, but which was amended in a previous amendment paper. |
| 4. (Cancelled): | Claim cancelled or deleted from the application. |
| 5. (Withdrawn): | Claim still in the application, but in a non-elected status. |
| 6. (Previously added): | Claim added in an earlier amendment paper. |
| 7. (New): | Claim being added in the current amendment paper. |
| 8. (Reinstated - formerly claim # _): | Claim deleted in an earlier amendment paper, but re-presented with a new claim number in current amendment. |
| 9. (Previously reinstated): | Claim deleted in an earlier amendment and reinstated in an earlier amendment paper. |
| 10. (Re-presented - formerly dependent claim # _): | Dependent claim re-presented in independent form in current amendment paper. |
| 11. (Previously re-presented): | Dependent claim re-presented in independent form in an earlier amendment, but not currently amended. |

C. Example of Listing of Claims:

Claims 1-5 (cancelled)
 Claim 6 (withdrawn)
 Claim 7 (previously amended): A bucket with a handle.
 Claim 8 (currently amended): A bucket with a ~~green~~ blue handle.
 Claim 9 (withdrawn)
 Claim 10 (original): A bucket with a wooden handle.
 Claim 11 (cancelled)

Claim 12 (new): A bucket with plastic sides and bottom.

Claim 13 (previously added): A bucket having a circumferential upper lip.

Claim 14 (re-presented - formerly claim 11): A black bucket with a wooden handle.

IV. Amendments to the Specification

Amendments to the specification are to be made by presenting replacement paragraphs, sections or a substitute specification marked up to show changes made relative to the immediate prior version, as set out in 37 CFR 1.121(b). The changes should be shown by strikethrough (for deleted matter) or underlining (for added matter). No accompanying "clean" version shall be supplied. The amendments to the specification shall be presented only one time, and will not appear in successive amendment documents.

V. Amendments to the Drawings

Amendments to the drawing figures shall be made by presenting replacement figures which include the desired changes, without markings, and which comply with § 1.84. The changes shall be explained in the accompanying remarks section of the amendment paper. If the amended drawings are not approved, the applicant will be notified in the next Office action. Any amended drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even though only one figure may be amended. The figure number in the amended drawing should not be labeled as "amended."

For further information on the prototype image electronic processing of patent applications, please contact the Search and Information Resources Administration at: image.processing@uspto.gov. Any questions regarding the submission of amendments pursuant to the revised practice set forth in this notice should be directed to Elizabeth Dougherty (Elizabeth.Dougherty@uspto.gov), Gena Jones (Eugenia.Jones@uspto.gov) or Joe Narcavage (Joseph.Narcavage@uspto.gov). For information on the waiver or legal aspects of the program, please contact Jay Lucas (Jay.Lucas@uspto.gov) or Rob Clarke (Robert.Clarke@uspto.gov).

Date: 1/31/03

Signed: /s/
STEPHEN KUNIN
Deputy Commissioner for Patent
Examination Policy

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